Measuring Power in Three-Phase Circuits

❑ **Measuring power to a 4-wire Y load requires three wattmeters (one meter per phase)**

✓ Loads may be balanced or unbalanced

✓ Total power is the sum of individual powers

✓ If the load could be guaranteed to be balanced

- Only one meter would be required

- Its value is multiplied by 3

Measuring Power in Three-Phase Circuits

❑ **For a three-wire system,** only two meters are needed

- ▪ Loads may be Y- or Δ-connected

- ▪ Loads may be balanced or unbalanced

- ▪ Total power is the algebraic sum of meter readings